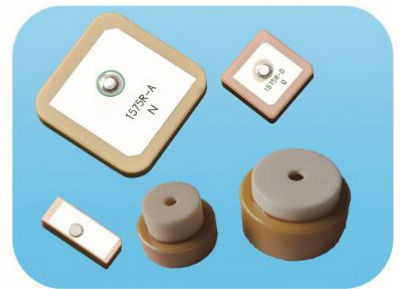
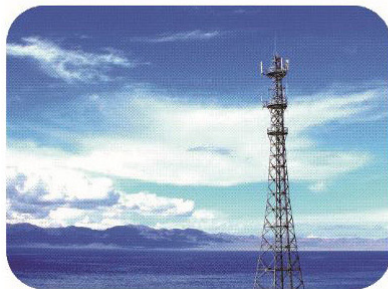
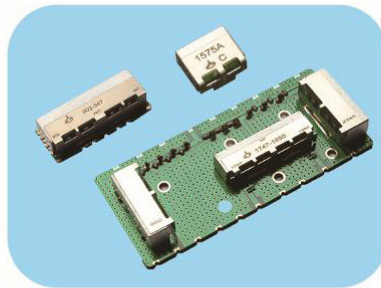


# LTCC Filter



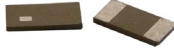
# 10. LTCC Filter



# LTCC Filter

## Low Pass / High Pass / Band Pass

Model : LTB1569



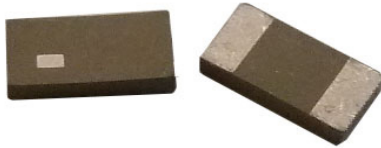
### General Specification

|                       |                    |
|-----------------------|--------------------|
| Mounting type         | SMD                |
| Dimension             | 4.5 x 3.2 x 1.6 mm |
| Operation temperature | -40 to 85 C        |

### Electrical Data

|                  |  |
|------------------|--|
| Center Frequency | 1569 MHz                               |
| Insertion Loss   | < 3.8 dB                               |
| Band Width       | 1367 ~ 1770 Mhz                        |
| Ripple           | <1.1 dB                                |
| VSWR             | <2                                     |
| Attenuation      | >25 dB at 1280MHz<br>>21 dB at 1860MHz |
| Input Power      | 1W                                     |
| Impedance        | 50 ohm                                 |

model: LTB1680



### General Specification

|                       |                    |
|-----------------------|--------------------|
| Mounting type         | SMD                |
| Dimension             | 3.2 x 2.5 x 1.2 mm |
| Operation temperature | -40 to 85 C        |

### Electrical Data

|                  |   |
|------------------|---|
| Center Frequency | 1680 MHz                                |
| Insertion Loss   | < 3 dB                                  |
| Band Width       | 1645 ~ 1715 Mhz                         |
| Ripple           | <1.0 dB                                 |
| VSWR             | < 2                                     |
| Attenuation      | >35 dB at 1440MHz<br>> 27dB at 2010 MHz |
| Input Power      | 1W                                      |
| I/O Impedance    | 50 ohm                                  |

LTB1035



### General Specification

|                       |                    |
|-----------------------|--------------------|
| Mounting type         | SMD                |
| Dimension             | 4.3 x 3.2 x 2.0 mm |
| Operation temperature | -40 to 85 C        |

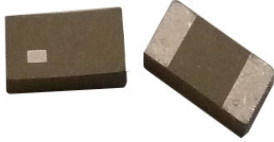
### Electrical Data

|                   |   |
|-------------------|---|
| Center Frequency  | 1035 MHz                                  |
| Insertion Loss    | < 2.5 dB                                  |
| I/O Impedance     | 50 ohm                                    |
| Band Width        | 950 ~ 1120MHz                             |
| Ripple            | <1.0 dB                                   |
| VSWR              | <2.2                                      |
| Attenuation       | > 15dB (at 850MHz)<br>> 20dB at 11230 MHz |
| Power Consumption | 1 W                                       |

# LTCC Filter

## Low Pass/ High pass / BandPass

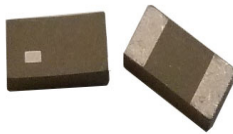
### LTB 1072



| General Specification | band Pass filter   |
|-----------------------|--------------------|
| Mounting type         | SMD                |
| Dimension             | 4.5 x 3.2 x 1.5 mm |
| Operation temperature | -40 to 85 C        |

| Electrical Data  | Band Pass filter  |
|------------------|-------------------|
| Center Frequency | 1072 MHz          |
| Insetion Loss    | < 4.5dB           |
| Band Width       | 947 ~ 1197 MHz    |
| Ripple           | < 1.1 dB          |
| VSWR             | < 2dB             |
| Attenuation      | >25 db at 1297MHz |
| Input Power      | 1 W               |
| Impedance        | 50 Ohm            |

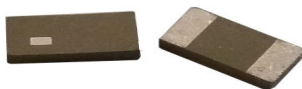
### LTB1200



| General Specification | band Pass filter   |
|-----------------------|--------------------|
| Mounting type         | SMD                |
| Dimension             | 4.5 x 3.2 x 1.5 mm |
| Operation temperature | -40 to 85 C        |

| Electrical Data  | Band Pass filter                                    |
|------------------|---|
| Center Frequency | 1200 MHz  |
| Insetion Loss    | < 2.5dB   |
| Band Width       | 950 ~ 1450 MHz                                      |
| Ripple           | < 0.3 dB  |
| VSWR             | < 1.8 dB  |
| Attenuation      | >25 db at 450 ~ 806 MHz<br>>21 dB at 1650 ~2150 MHz |
| Input Power      | 1 W   |
| Impedance        | 50 Ohm  |

### LTB1414



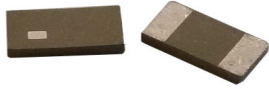
| General Specification | band Pass filter   |
|-----------------------|--------------------|
| Mounting type         | SMD                |
| Dimension             | 4.5 x 3.2 x 1.5 mm |
| Operation temperature | -40 to 85 C        |

| Electrical Data  | Band Pass filter                        |
|------------------|---|
| Center Frequency | 1414 MHz                                |
| Insetion Loss    | < 4.5dB                                 |
| Band Width       | 1297 ~ 1530 MHz                         |
| Ripple           | < 1.1 dB                                |
| VSWR             | < 2dB                                   |
| Attenuation      | >25 db at 1197MHz<br>> 25 d at 1635 MHz |
| Input Power      | 1 W                                     |
| Impedance        | 50 Ohm                                  |

# LTCC Filter

## Low Pass / High Pass / Band Pass

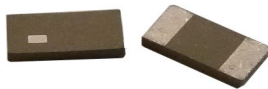
Model : LTB1739



| General Specification | band Pass filter   |
|-----------------------|--------------------|
| Mounting type         | SMD                |
| Dimension             | 4.5 x 3.2 x 1.5 mm |
| Operation temperature | -40 to 85 C        |

| Electrical Data  | Band Pass filter                        |
|------------------|---|
| Center Frequency | 1739 MHz                                |
| Insetion Loss    | < 4.5 dB                                |
| Band Width       | 1635 ~ 1843 MHz                         |
| Ripple           | < 1.1 dB                                |
| VSWR             | < 2dB                                   |
| Attenuation      | >25 dB at 1530MHz<br>>25 dB at 1945 MHz |
| Input Power      | 1 W                                     |
| Impedance        | 50 Ohm                                  |

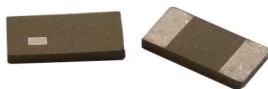
LTB1900



| General Specification | band Pass filter   |
|-----------------------|--------------------|
| Mounting type         | SMD                |
| Dimension             | 3.2 x 2.5 x 1.5 mm |
| Operation temperature | -40 to 85 C        |

| Electrical Data  | Band Pass filter                               |
|------------------|--|
| Center Frequency | 1900 MHz                                       |
| Insetion Loss    | < 2.3 dB                                       |
| Band Width       | 1650 ~2150 MHz                                 |
| Ripple           | < 1.5 dB                                       |
| VSWR             | < 1.6dB  |
| Attenuation      | >30 dB at 1450 MHz<br>>30 dB at 915 ~ 1300 MHz |
| Input Power      | 1 W  |
| Impedance        | 50 Ohm   |

LTB2450

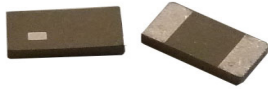


| General Specification | Band Pass filter   |
|-----------------------|--------------------|
| Mounting type         | SMD                |
| Dimension             | 2.5 x 2.0 x 1.2 mm |
| Operation temperature | -40 to 85 C        |

| Electrical Data   | Band Pass Filter                          |
|-------------------|---|
| Center Frequency  | 2450 MHz                                  |
| Insetion Loss     | < 2.5 dB                                  |
| Noise Figure      | 1.5dB                                     |
| Band Width        | 950 ~ 1120MHz                             |
| Ripple            | <1.0 dB                                   |
| VSWR              | <2.2                                      |
| Attenuation       | > 15dB (at 850MHz)<br>> 20dB at 11230 MHz |
| Power Consumption | 1 W                                       |

# LTCC Filter

## LTB 1072

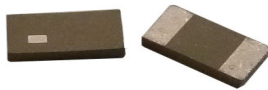


## Low Pass/ High pass / BandPass

| General Specification | band Pass filter   |
|-----------------------|--------------------|
| Mounting type         | SMD                |
| Dimension             | 2.5 x 2.0 x 1.2 mm |
| Operation temperature | -40 to 85 C        |

| Electrical Data  | Band Pass filter                                      |
|------------------|---|
| Center Frequency | 6800 MHz  |
| Insetion Loss    | < 2.3 dB  |
| Band Width       | 6500 ~7100 MHz  |
| Ripple           | < 1.5 dB  |
| VSWR             | < 2dB   |
| Attenuation      | >40 db at 5500~5600MHz<br>> 25 dB at 9000 ~ 12000 MHz |
| Input Power      | 1 W   |
| Impedance        | 50 Ohm  |

## LTL 0500



| General Specification | Low Pass filter    |
|-----------------------|--------------------|
| Mounting type         | SMD                |
| Dimension             | 4.5 x 3.2 x 1.5 mm |
| Operation temperature | -40 to 85 C        |

| Electrical Data  | Low Pass filter  |
|------------------|--|
| Center Frequency | 500 MHz  |
| Insetion Loss    | < 3.0 dB   |
| Band Width       | 250 ~750 MHz   |
| Ripple           | < 0.3 dB   |
| VSWR             | < 2.0 dB   |
| Attenuation      | >25 db at 900MHz<br>>43 dB at 1050 MHz<br>>40 dB at 2200~2500MHz<br>>32 dB at 2500 ~ 4000MHz |
| Input Power      | 1 W  |
| Impedance        | 50 Ohm   |

## LTL 1115



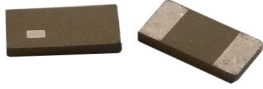
| General Specification | Low Pass filter    |
|-----------------------|--------------------|
| Mounting type         | SMD                |
| Dimension             | 4.5 x 3.2 x 2.0 mm |
| Operation temperature | -40 to 85 C        |

| Electrical Data  | Low Pass filter   |
|------------------|-------------------|
| Center Frequency | 1115 MHz          |
| Insetion Loss    | < 3.5dB           |
| Band Width       | 950 ~ 1280 MHz    |
| Ripple           | < 1.1 dB          |
| VSWR             | < 2dB             |
| Attenuation      | >24 db at 1367MHz |
| Input Power      | 1 W               |
| Impedance        | 50 Ohm            |

# LTCC Filter

## Low Pass / High Pass / Band Pass

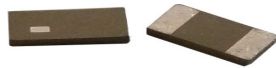
### LTB1325



| General Specification | band Pass filter   |
|-----------------------|--------------------|
| Mounting type         | SMD                |
| Dimension             | 3.2 x 2.5 x 1.5 mm |
| Operation temperature | -40 to 85 C        |

| Electrical Data  | Band Pass filter                               |
|------------------|--|
| Center Frequency | 1325 MHz                                       |
| Insetion Loss    | < 4.0 dB                                       |
| Band Width       | 950 ~ 1700 MHz                                 |
| Ripple           | < 1.1 dB                                       |
| VSWR             | < 2dB  |
| Attenuation      | >10 dB at 1770 MHz<br>>26 dB at 1850 ~2150 MHz |
| Input Power      | 1 W  |
| Impedance        | 50 Ohm   |

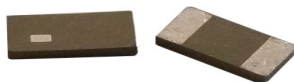
### LTB 740



| General Specification | band Pass filter   |
|-----------------------|--------------------|
| Mounting type         | SMD                |
| Dimension             | 3.2 x 1.6 x 1.0 mm |
| Operation temperature | -40 to 85 C        |

| Electrical Data  | Band Pass filter                               |
|------------------|--|
| Center Frequency | 740 MHz  |
| Insetion Loss    | < 3.0 dB at 740MHz<br>< 2.0dB at 780 ~2800 MHz |
| Band Width       | 740 ~ 2800 MHz                                 |
| Ripple           | < 1.5 dB                                       |
| VSWR             | < 2.0 dB                                       |
| Attenuation      | >40 db at 430 MHz<br>>20 dB at 550 MHz         |
| Input Power      | 1 W  |
| Impedance        | 50 Ohm   |

### LTB 2005



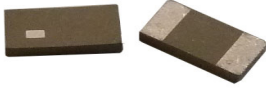
| General Specification | Band Pass filter   |
|-----------------------|--------------------|
| Mounting type         | SMD                |
| Dimension             | 4.5 x 3.2 x 1.6 mm |
| Operation temperature | -40 to 85 C        |

| Electrical Data   | Band Pass filter  |
|-------------------|-------------------|
| Center Frequency  | 2005 MHz          |
| Insetion Loss     | < 3.5 dB          |
| Bnad Width        | 1860 ~ 2150 MHz   |
| Ripple            | <1.1 dB           |
| VSWR              | <2.0              |
| Attenuation       | >23 dB at 1770MHz |
| Input Power       | 1W                |
| In/ Out Impedance | 50 ohm            |

# LTCC Filter

## Low Pass/ High pass / BandPass

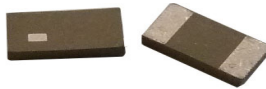
### LTB 6800



| General Specification | band Pass filter   |
|-----------------------|--------------------|
| Mounting type         | SMD                |
| Dimension             | 2.5 x 2.0 x 1.2 mm |
| Operation temperature | -40 to 85 C        |

| Electrical Data  | Band Pass filter                                      |
|------------------|---|
| Center Frequency | 6800 MHz  |
| Insetion Loss    | < 2.3 dB  |
| Band Width       | 6500 ~7100 MHz  |
| Ripple           | < 1.5 dB  |
| VSWR             | < 2dB   |
| Attenuation      | >40 db at 5500~5600MHz<br>> 25 dB at 9000 ~ 12000 MHz |
| Input Power      | 1 W   |
| Impedance        | 50 Ohm  |

### LTB500



| General Specification | Low Pass filter    |
|-----------------------|--------------------|
| Mounting type         | SMD                |
| Dimension             | 4.5 x 3.2 x 1.5 mm |
| Operation temperature | -40 to 85 C        |

| Electrical Data  | Low Pass filter  |
|------------------|--|
| Center Frequency | 500 MHz  |
| Insetion Loss    | < 3.0 dB   |
| Band Width       | 250 ~750 MHz   |
| Ripple           | < 0.3 dB   |
| VSWR             | < 2.0 dB   |
| Attenuation      | >25 db at 900MHz<br>>43 dB at 1050 MHz<br>>40 dB at 2200~2500MHz<br>>32 dB at 2500 ~ 4000MHz |
| Input Power      | 1 W  |
| Impedance        | 50 Ohm   |

### LTB 1115



| General Specification | Low Pass filter    |
|-----------------------|--------------------|
| Mounting type         | SMD                |
| Dimension             | 4.5 x 3.2 x 2.0 mm |
| Operation temperature | -40 to 85 C        |

| Electrical Data  | Low Pass filter   |
|------------------|-------------------|
| Center Frequency | 1115 MHz          |
| Insetion Loss    | < 3.5dB           |
| Band Width       | 950 ~ 1280 MHz    |
| Ripple           | < 1.1 dB          |
| VSWR             | < 2dB             |
| Attenuation      | >24 db at 1367MHz |
| Input Power      | 1 W               |
| Impedance        | 50 Ohm            |